

**S/N Unknown**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	David J. Grainger et al.	Examiner:	Unknown
Serial No.:	Unknown	Group Art Unit:	Unknown
Filed:	Herewith	Docket:	295.009US4
Title:	PREVENTION AND TREATMENT OF CARDIOVASCULAR PATHOLOGIES		

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**INFORMATION DISCLOSURE STATEMENT**

**BOX PATENT APPLICATION**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In compliance with 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for review in connection with the above-identified patent application. Applicant respectfully requests that this Information Disclosure Statement be entered and the documents listed on the attached Forms 1449 be considered by the Examiner and made of record. Pursuant to MPEP 609, Applicant requests that a copy of Forms 1449, initialed by the Examiner to indicate that all listed documents have been considered, be returned with the next official communication.

In accordance with 37 C.F.R. § 1.98(d), copies of the listed documents are not provided as these documents were previously cited by or submitted to the U.S. Patent Office in connection with Applicant's prior U.S. applications, which are relied upon for an earlier filing date under 35 U.S.C. § 120. This application is a continuation application of U.S. application Serial No. 09/754,775, filed January 04, 2001, which is a continuation application of U.S. application Serial No. 08/973,570, filed December 05, 1997, which is a national stage filing of PCT/US96/10211, filed June 7, 1996, which is a continuation-in-part of U.S. application Serial No. 08/478,936, filed June 7, 1995; U.S. application Serial No. 08/476,735, filed June 7, 1995; U.S. application Serial No. 08/477,393, filed June 7, 1995; and U.S. application Serial No. 08/486,334, filed June 7, 1995, which is a continuation-in-part of U.S. application Serial No. 08/242,161, filed May 12, 1994, which is a continuation-in-part of U.S. application Serial No. 08/061,714, filed May 13, 1993.

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The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

DAVID J. GRAINGER ET AL.

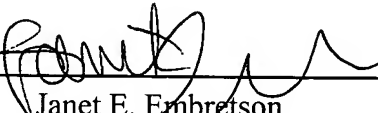
By their Representatives,

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Date

December 5, 2003

By

  
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Applicant: David J. Grainger et al.	
	Filing Date: Herewith	Group: Unknown

## U.S. PATENT DOCUMENTS

**Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
_____	2,914,563	11/24/1959	Allen et al.	260	570	08/06/57
_____	3,010,965	11/28/1961	Elpern	260	293	02/05/57
_____	3,168,565	02/02/1965	Palopoli et al.	260	570.7	11/20/59
_____	3,288,806	11/29/1966	DeWald et al.	260	326.5	03/23/64
_____	3,634,517	01/11/1972	Palopoli et al.	260	590	08/19/68
_____	3,940,422	02/24/1976	Harita et al.	260	340	01/17/74
_____	4,070,484	01/24/1978	Harita et al.	424	319	12/21/76
_____	4,093,709	06/06/1978	Sok Choi et al.	424	19	01/28/75
_____	4,133,814	01/09/1979	Jones et al.	260	326	09/17/76
_____	4,230,862	10/28/1980	Suarez et al.	546	237	08/03/78
_____	4,235,988	11/25/1980	Fildes et al.	528	79	05/31/79
_____	4,239,778	12/16/1980	Venton et al.	424	305	09/12/78
_____	4,307,111	12/22/1981	Crawley	424	278	04/29/80
_____	4,323,707	04/06/1982	Suarez et al.	564	324	05/12/80
_____	4,380,635	04/19/1983	Peters	546	324	05/12/80
_____	4,418,068	11/29/1983	Jones	424	267	12/16/81
_____	4,442,119	04/10/1984	Magarian et al.	424	274	07/26/82
_____	4,512,762	04/23/1985	Spears	604	21	11/23/82
_____	4,536,516	08/20/1985	Harper	514	574	04/17/84
_____	4,675,189	06/23/1987	Kent et al.	424	490	02/08/85
_____	4,696,949	08/29/1987	Toivola et al.	514	648	05/25/83
_____	4,824,436	04/25/1989	Wolinsky	604	53	04/21/87
_____	4,826,672	05/02/1989	Milius et al.	424	1	06/07/85
_____	4,835,002	05/30/1989	Wolf et al.	426	590	07/10/87
_____	4,839,155	06/13/1989	Mccague	424	1	09/09/87
_____	4,859,585	08/22/1989	Sonnenschein et al.	435	29	04/17/86
_____	4,879,315	11/07/1989	Magarian et al.	514	754	09/21/87
_____	4,929,602	05/29/1990	Harker et al.	514	18	11/22/88
_____	4,962,091	10/09/1990	Eppstein et al.	514	2	05/23/86
_____	4,968,350	11/06/1990	Bindschaedler et al.	106	170	04/01/88
_____	4,973,755	11/27/1990	Grafe et al.	564	324	04/19/88
_____	4,990,538	02/05/1991	Harris et al.	514	648	08/23/89
_____	4,994,033	02/19/1991	Shockey et al.	604	101	05/29/89
_____	4,996,225	02/26/1991	Toivola et al.	514	428	05/25/83
_____	4,997,652	03/05/1991	Wong	424	428	05/31/89
_____	5,008,279	04/16/1991	Franckowiak et al.	514	345	10/27/88
_____	5,009,659	04/23/1991	Hamlin et al.	606	159	10/30/89
_____	5,015,666	05/14/1991	Magarian et al.	514	754	09/22/89
_____	5,026,537	06/25/1991	Daddona et al.	424	1.1	05/06/89
_____	5,032,679	07/16/1991	Brandley et al.	536	21	08/31/89
_____	5,043,335	08/27/1991	Kleinschroth et al.	514	211	06/23/90
_____	5,047,431	09/10/1991	Schickaneder et al.	514	648	05/14/90
_____	5,049,132	09/17/1991	Schaffer et al.	604	101	01/08/90
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Examiner

Date Considered

\*Substitute Disclosure Statement Form (PTO-1449)

\*\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449*	Atty. Docket No.: 295.009US4	Serial No. Unknown
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## U.S. PATENT DOCUMENTS

**Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,059,166	11/22/1991	Fischell et al.	600	3	12/11/89
	5,066,789	11/19/1991	Srinivasan et al.	530	388	09/29/89
	5,075,321	12/24/1991	Schreiber	514	317	02/24/88
	5,098,903	03/24/1992	Magarian et al.	514	255	11/06/89
	5,102,402	04/07/1992	Dror et al.	604	265	01/04/91
	5,108,989	05/28/1992	Amento et al.	514	12	04/04/90
	5,112,305	05/12/1992	Barath et al.	704	96	10/16/90
	5,114,719	05/19/1992	Sabel et al.	424	422	09/14/89
	5,116,864	05/26/1992	March et al.	514	455	04/09/91
	5,120,535	06/09/1992	Marquardt et al.	424	85.5	05/04/87
	5,140,012	08/18/1992	McGovern et al.	514	19	05/31/90
	5,166,143	11/24/1992	Ondetti et al.	514	89	06/13/91
	5,171,217	12/15/1992	March et al.	604	53	02/28/91
	5,176,617	01/05/1993	Fischell et al.	600	3	11/21/91
	5,180,366	01/19/1993	Woods	604	96	10/10/90
	5,185,260	02/09/1993	Crissman et al.	435	244	08/29/91
	5,189,046	02/23/1993	Burch et al.	514	330	08/14/90
	5,189,212	02/23/1993	Ruenitz	562	468	09/07/90
	5,192,525	03/09/1993	Yang et al.	424	11	06/28/91
	5,199,939	04/06/1993	Dake et al.	600	3	02/23/90
	5,208,019	05/05/1993	Hanson et al.	424	85	09/27/89
	5,213,576	05/25/1993	Abiuso et al.	604	96	06/11/91
	5,213,580	05/25/1993	Slepian et al.	623	1	03/25/92
	5,216,126	06/01/1993	Cox et al.	530	350	06/19/91
	5,219,548	06/15/1993	Yang et al.	424	1	10/01/90
	5,221,620	06/22/1993	Purchio et al.	435	69	12/05/89
	5,226,430	07/13/1993	Spears et al.	128	898	05/24/91
	5,229,495	04/20/1993	Ichijo et al.	530	350	06/18/91
	5,232,444	08/03/1993	Just et al.	604	96	02/25/91
	5,238,714	08/24/1993	Wallace et al.	427	213	10/02/90
	5,238,950	08/24/1993	Clader et al.	514	360	12/17/91
	5,242,397	09/07/1993	Barath et al.	604	96	01/02/92
	5,248,764	09/28/1993	Flanagan et al.	530	324	02/27/92
	5,254,594	10/19/1993	Niikura et al.	514	648	04/08/92
	5,268,358	12/07/1993	Fretto et al.	514	12	05/06/91
	5,270,047	12/14/1993	Kauffman et al.	424	422	11/21/91
	5,280,016	01/18/1994	Conrad et al.	514	56	09/03/91
	5,280,109	01/18/1994	Miyazono et al.	530	399	01/27/92
	5,282,785	02/01/1994	Shapland et al.	604	21	10/05/92
	5,283,257	02/01/1994	Gregory et al.	514	458	07/10/92
	5,284,763	02/08/1994	Derynk et al.	435	240	03/04/92
	5,284,869	02/08/1994	Bisaccia et al.	514	455	12/17/91
	5,288,711	02/22/1994	Mitchell et al.	514	56	04/28/92
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Examiner

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\*Substitute Disclosure Statement Form (PTO-1449)

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## U.S. PATENT DOCUMENTS

**Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,304,325	04/19/1994	Kaufman et al.	252	312	11/13/91
	5,304,541	04/19/1994	Purchio et al.	514	12	03/14/91
	5,308,622	05/03/1994	Casscells et al.	424	422	07/16/92
	5,308,862	05/03/1994	Ohlstein et al.	514	411	03/05/93
	5,314,679	05/24/1994	Lewis et al.	424	9	12/22/92
	5,316,766	05/31/1994	Baldus et al.	424	94	02/06/90
	5,324,736	06/28/1994	Magarin et al.	514	317	08/16/93
	5,326,757	07/05/1994	Demopoulos	514	167	08/18/93
	5,328,471	07/12/1994	Slepian	604	101	08/04/93
	5,332,584	07/26/1994	Scher et al.	424	408	12/09/91
	5,340,925	08/23/1994	Lioubin et al.	530	395	06/17/92
	5,346,702	09/13/1994	Na et al.	424	490	12/04/92
	5,346,993	09/13/1994	Miyazono et al.	530	399	07/15/93
	5,354,562	10/11/1994	Platz et al.	424	489	01/16/93
	5,354,774	10/11/1994	Deckelbaum et al.	514	455	12/24/92
	5,354,801	10/11/1994	O'Toole et al.	524	461	08/12/93
	5,356,713	10/18/1994	Charmot et al.	428	407	06/01/93
	5,362,424	11/08/1994	Lee et al.	264	4.3	10/10/91
	5,364,632	11/15/1994	Benita et al.	424	450	03/09/93
	5,380,716	01/10/1995	Conrad et al.	514	56	12/28/92
	5,384,332	01/24/1995	Fontana	514	648	05/11/94
	5,385,935	01/31/1995	Tamai et al.	514	535	09/07/93
	5,389,670	02/14/1995	Fontana	514	443	12/21/93
	5,391,557	02/21/1995	Cullinan et al.	514	324	10/15/93
	5,393,763	02/28/1995	Black et al.	514	333	01/12/94
	5,393,772	02/28/1995	Yue et al.	514	410	11/24/93
	5,393,785	02/28/1995	Labrie et al.	514	622	07/14/92
	5,395,842	03/07/1995	Labrie et al.	514	320	12/02/91
	5,401,730	03/28/1995	Sauvage et al.	514	165	07/06/90
	5,418,252	05/23/1995	Williams	514	443	10/15/93
	5,423,885	06/13/1995	Williams	623	1	07/14/93
	5,424,331	06/13/1995	Shlyankevich	514	456	06/10/94
	5,426,123	06/20/1995	Fontana	514	651	05/11/94
	5,429,634	07/04/1995	Narcisco Jr.	604	890.1	09/09/93
	5,434,166	07/18/1995	Glasebrook	514	317	08/22/94
	5,436,243	07/25/1995	Sachs et al.	514	231	11/17/93
	5,439,923	08/08/1995	Cullinan	514	324	12/21/93
	5,439,931	08/08/1995	Sales	514	443	12/21/93
	5,441,947	08/15/1995	Dodge et al.	514	179	08/25/93
	5,441,964	08/15/1995	Bryant et al.	514	324	10/15/93
	5,441,965	08/15/1995	Sall et al.	514	324	12/21/93
	5,441,986	08/15/1995	Thompson	514	648	07/19/94
	5,444,164	08/22/1995	Purchio et al.	536	23.5	05/04/92
	5,446,053	08/29/1995	Keohane	514	324	12/21/93

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**Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,447,941	09/05/1995	Zuckerman	514	324	12/21/93
	5,453,442	09/26/1995	Bryant et al.	514	408	02/18/94
	5,455,275	10/03/1995	Fontana	514	648	05/11/94
	5,457,113	10/10/1995	Cullinan et al.	514	319	10/15/93
	5,457,116	10/10/1994	Black et al.	514	324	10/15/93
	5,457,117	10/10/1995	Black et al.	514	337	10/26/94
	5,458,568	10/17/1995	Racchini et al.	604	19	09/17/93
	5,462,937	10/31/1995	Cullinan et al.	514	212	04/14/95
	5,466,810	11/14/1995	Godfrey	546	202	06/10/94
	5,468,746	11/21/1995	Casagrande et al.	514	235.5	06/21/91
	5,470,883	11/28/1995	Stromberg	514	648	05/23/94
	5,472,985	12/05/1995	Grainger et al.	514	651	09/02/94
	5,478,847	12/26/1995	Draper	514	333	03/02/94
	5,480,888	01/02/1996	Kodama et al.	514	320	06/11/94
	5,480,904	01/02/1996	Bryant et al.	514	443	10/28/93
	5,482,949	01/09/1996	Black et al.	514	324	03/19/93
	5,482,950	01/09/1996	Bryant et al.	514	324	10/15/93
	5,484,795	01/16/1996	Bryant et al.	514	319	09/20/94
	5,484,796	01/16/1996	Bryant et al.	514	319	04/21/95
	5,484,798	01/16/1996	Bryant et al.	514	324	09/20/94
	5,484,808	01/16/1996	Grinnell	514	443	02/09/95
	5,489,587	02/06/1996	Fontana	514	233.5	01/20/95
	5,491,159	02/13/1996	Malamas	514	374	08/30/94
	5,491,173	02/13/1996	Toivola et al.	514	648	05/25/83
	5,492,921	02/20/1996	Bryant et al.	514	324	09/20/94
	5,492,922	02/20/1996	Palkowitz	514	324	02/28/95
	5,492,926	02/20/1996	Cullinan et al.	514	422	10/15/93
	5,492,927	02/20/1996	Gitter et al.	514	443	12/21/93
	5,496,828	03/05/1996	Cullinan	514	324	08/22/94
	5,498,775	03/12/1996	Novak et al.	514	25	11/07/94
	5,508,292	04/16/1996	Sall et al.	514	324	04/14/95
	5,510,370	04/23/1996	Hock et al.	514	443	03/06/95
	5,516,781	05/14/1996	Morris et al.	514	291	05/12/94
	5,516,807	05/14/1996	Hupe et al.	514	673	10/25/94
	5,519,042	05/21/1996	Morris et al.	514	378	01/13/94
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	5,521,191	05/28/1996	Greenwald	514	262	10/17/94
	5,521,198	05/28/1996	Zuckerman	514	324	12/21/93
	5,527,337	06/18/1996	Stack et al.	606	198	02/01/91
	5,534,527	07/09/1996	Black et al.	514	333	04/14/95
	5,541,174	07/30/1996	Sorenson	514	186	01/18/95
	5,545,409	08/13/1996	Laurencin et al.	424	426	04/05/94
	5,545,569	08/13/1996	Grainger et al.	436	518	05/25/95
	5,552,415	09/03/1996	May	514	324	12/21/93

Examiner

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	5,567,713	10/22/1996	Cullinan et al.	514	324	01/09/95
	5,563,054	10/08/1996	Briggs et al.	435	127	03/31/95
	5,571,714	11/05/1996	Dasch et al.	435	240.27	12/22/88
	5,574,047	11/12/1996	Bumol et al.	514	324	12/21/93
	5,595,722	01/21/1997	Grainger et al.	424	9.2	06/07/95
	5,597,578	01/28/1997	Brown et al.	424	422	09/11/89
	5,599,844	02/04/1997	Grainger et al.	514	651	09/15/95
	5,610,166	03/11/1997	Singh	514	324	03/22/95
	5,622,975	04/22/1997	Singh et al.	514	324	06/01/95
	5,639,274	06/17/1997	Fischell et al.	604	96	06/02/95
	5,658,927	08/19/1997	Magarian et al.	514	315	06/07/95
	5,681,835	10/28/1997	Willson	514	237.5	04/25/94
	5,686,467	11/11/1997	Bumol et al.	514	324	03/15/95
	5,726,186	03/10/1998	Grese	514	321	08/13/96
	5,770,609	06/23/1998	Grainger et al.	514	319	06/07/95
	5,847,007	12/08/1998	Grainger et al.	514	651	05/12/94
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	Re. 32,944	06/06/1989	Harita et al.	562	455	06/01/77

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**Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes   No
	0 054 168	06/23/1982	European	C07C	93/06	Abstract
	0 095 875	12/07/1983	European	C07C	33/26	
	0 260 066	03/16/1988	European	C07C	217/54	
	0 365 863	05/02/1990	European	C07D	413/54	
	0 374 044	06/20/1990	European	C12N	15/16	
	0 451 202	10/16/1991	European	A61K	9/70	
	0 542 679	05/19/1993	European	C12N	15/12	
	0 577 215	01/05/1993	European	A61K	9/14	
	0 584 952	03/02/1994	European	A61K	31/445	
	0 588 518	02/23/1994	European	A61K	31/165	
	0 606 613	07/20/1994	European	G01N	33/531	
	0 622 076	11/02/1994	European	A61K	31/165	
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Form 1449\*

Atty. Docket No.: 295.009US4

Serial No. Unknown

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(Use several sheets if necessary)

Applicant: David J. Grainger et al.

Filing Date: Herewith

Group: Unknown

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